

ABSTRACT

A thermostat device includes a valve housing with a cooling water passage of an internal combustion engine, a built-in thermally expansive body thermally expanded or contracted by temperature change of cooling water, a piston rod slid by thermal expansion/contraction of the expansive body, and a valve body subjected to opening/closing operation by the piston rod in accordance with volume change of the expansive body. A valve seat shape on downstream side than the valve seat, which is an internal wall face forming the passage is formed in a shape that in valve open condition the cross-sectional area of the passage between an inlet seal of the valve seat and the top face of the valve body gradually decreases with reference to the maximum passage cross-sectional area on upstream side and that the cross-sectional area of the passage at the face perpendicular to the top face gradually increases.